



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101038,895
Source: 31PE
Date Processed by STIC: 3/3/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

O1PE

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>101038,895</u>
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ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 Use of <220>
- Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n
- n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,895

DATE: 03/02/2003

TIME: 12:42:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

3. <110> APPLICANT: Kulp, David C.
 4. Siani-Rose, Michael A.
 5. Williams, Alan J.
 6. Harmon, Cyrus L.

1. <120> TITLE OF INVENTION: Nucleic Acids Encoding G Proteins Coupled Receptors
 1. <130> FILE REFERENCE: 3379.1
 1. <140> CURRENT APPLICATION NUMBER: 10/038,895
 1. <141> CURRENT FILING DATE: 2001-10-24
 1. <150> PRIOR APPLICATION NUMBER: US 60/244,082
 1. <151> PRIOR FILING DATE: 2000-10-26
 1. <160> NUMBER OF SEQ ID NOS: 20
 2. <170> SOFTWARE: PatentIn version 3.2
 3. <210> SEQ ID NO: 1
 4. <211> LENGTH: 174
 4. <212> TYPE: PRT
 3. <213> ORGANISM: Synthetic - invalid response, see error summary
 4. <214> FEATURE:
 4. <215> NAME/KEY: misc_feature
 4. <216> LOCATION: (1..6)..(1..6)
 4. <217> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 4. <218> FEATURE:
 4. <219> NAME/KEY: misc_feature
 4. <220> LOCATION: (1..6)..(1..6)
 4. <221> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 4. <222> SEQUENCE: 1
 40 Leu Leu Ala Pro Thr Gly Ser Leu Phe Arg Asn Cys Thr Gln Asp Gly
 41 5 10 15
 42 Tyr Ser Glu Thr Phe Pro Arg Pro Asn Leu Ala Cys Gly Val Asn Val
 43 20 25 30
 44 Asn Asp Ser Ser Asn Glu Lys Arg Ser Tyr Leu Leu Lys Leu Lys Val
 45 35 40 45
 46 Met Tyr Thr Val Gly Tyr Ser Ser Ser Leu Val Met Leu Leu Val Ala
 47 50 55 60
 48 Leu Gly Ile Leu Cys Ala Phe Arg Arg Leu His Cys Thr Arg Asn Tyr
 49 65 70 75 80
 50 Ile His Met His Leu Phe Val Ser Phe Ile Leu Arg Ala Leu Ser Asn
 51 85 90 95
 52 Phe Ile Lys Asp Ala Val Leu Phe Ser Ser Asp Asp Val Thr Tyr Cys
 53 100 105 110
 W--> 68 Asp Ala His Arg Gly Cys Lys Leu Val Met Val Leu Phe Xaa Tyr Cys
 69 115 120 125
 70 Ile Met Ala Asn Tyr Ser Tyr Leu Leu Val Glu Gly Ser Thr Phe Thr
 71 130 135 140

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003
TIME: 12:42:49

Input Set : D:\3379.1.ST25.txt
Output Set: N:\CRF4\03032003\J038895.raw

76 His ⁸² Leu ⁸⁴ Ile ⁸⁵ Ser ⁸⁶ Phe ⁸⁷ Phe ⁸⁸ Ser ⁸⁹ Glu ⁹⁰ Arg ⁹¹ Lys ⁹² Tyr ⁹³ Leu ⁹⁴ Gln ⁹⁵ Gly
 77 ¹⁴⁵ 150 155 160
 80 Phe ¹⁴⁶ Val ¹⁴⁷ Ala ¹⁴⁸ Ile ¹⁴⁹ Gly ¹⁵⁰ Trp ¹⁵¹ Gly ¹⁵² Ser ¹⁵³ Pro ¹⁵⁴ Ala ¹⁵⁵ Ile ¹⁵⁶ Phe ¹⁵⁷ Val ¹⁵⁸ Ala ¹⁵⁹ Leu ¹⁶⁰ Trp
 81 155 170 175
 84 Ala ¹⁶¹ Ile ¹⁶² Ala ¹⁶³ Arg ¹⁶⁴ His ¹⁶⁵ Phe ¹⁶⁶ Leu ¹⁶⁷ Glu ¹⁶⁸ Asp ¹⁶⁹ Val ¹⁷⁰ Gly ¹⁷¹ Cys ¹⁷² Trp ¹⁷³ Asp ¹⁷⁴ Ile ¹⁷⁵ Asn
 85 180 185 190
 86 Ala ¹⁸⁷ Asn ¹⁸⁸ Ala ¹⁸⁹ Ser ¹⁹⁰ Ile ¹⁹¹ Trp ¹⁹² Trp ¹⁹³ Ile ¹⁹⁴ Ile ¹⁹⁵ Arg ¹⁹⁶ Gly ¹⁹⁷ Pro ¹⁹⁸ Val ¹⁹⁹ Ile ²⁰⁰ Leu ²⁰¹ Ser
 87 195 200 205
 90 Ile ²⁰² Leu ²⁰³ Asn ²⁰⁴ Phe ²⁰⁵ Ile ²⁰⁶ Leu ²⁰⁷ Phe ²⁰⁸ Ile ²⁰⁹ Asn ²¹⁰ Ile ²¹¹ Leu ²¹² Arg ²¹³ Ile ²¹⁴ Leu ²¹⁵ Met ²¹⁶ Arg
 91 210 215 220
 96 Lys ²¹⁷ Leu ²¹⁸ Arg ²¹⁹ Thr ²²⁰ Gln ²²¹ Glu ²²² Thr ²²³ Arg ²²⁴ Gly ²²⁵ Asn ²²⁶ Gln ²²⁷ Val ²²⁸ Ser ²²⁹ His ²³⁰ Tyr ²³¹ Lys
 97 221 230 235 240
 100 Arg ²³² Leu ²³³ Ala ²³⁴ Arg ²³⁵ Ser ²³⁶ Thr ²³⁷ Leu ²³⁸ Leu ²³⁹ Ile ²⁴⁰ Pro ²⁴¹ Leu ²⁴² Phe ²⁴³ Gly ²⁴⁴ Ile ²⁴⁵ His
 101 245 250 255
 104 Tyr ²⁴⁶ Ile ²⁴⁷ Val ²⁴⁸ Phe ²⁴⁹ Ala ²⁵⁰ Phe ²⁵¹ Ser ²⁵² Pro ²⁵³ Glu ²⁵⁴ Asp ²⁵⁵ Ala ²⁵⁶ Met ²⁵⁷ Glu ²⁵⁸ Ile ²⁵⁹ Gln ²⁶⁰ Leu
 105 255 260 265 270

10% Phe Phe

112-0100-SEQ ID NO: 3

113-4111 LENGTH: 331

114 1, 1. - TYPE: DNA

115-4114 - ORGANISM: (3)

1:17 6400+ SEQUENCE: 2
 1:8 ctcttggcc ccacaggttc ctgtgttccga aactgcacac aggtatggctg gtcagaaaacc 60
 1:9 ttccggcc ctatatggc ctgtggcggtt aatgtgttacg acctttccaa cggagaaggggg 170
 1:0 ctccttatac ttcgttgtgtt gaaagtcatg tacacccgtgg gtcatacgatc ttccctggcc 170
 1:4 cttgtttatgg tttccatgttgg cttatcttctgt gctttccggga ggttcacatg cacttggaaac 240
 1:6 tccatccata tggatctttttt cttgtgttccatc atccatctgtt gcttgcacaa ttccatcaag 310
 1:7 tccatgttgtt tttttttttt agatgtatgtc acctactgtt gatgcacacag gggtttgttc 360
 1:8 cttgtgttgtt tttttttttt c 371

1 - 4 - 11 - LENGTH: 447

149-1113 · TYPE: DNA

146 VOL. 14 - ORGANISATION

1.4.1.20. FEATURE:

140-0121 NAME/KEY: misc_features

141-1121 - LOCATION: (53) .. (53)

142 4.2 - OTHER INFORMATION: n is a, c, g, or t

144-1400-SEQUENCE: 3

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003

TIME: 10:42:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

256	Ser	Ala	Ile	Val	Gly	Pro	Gln	Asn	Tyr	Gly	Thr	Phe	Thr	His	Cys	Trp
257			195				200					205				
260	Leu	Lys	Leu	Asp	Lys	Gly	Phe	Ile	Trp	Ser	Phe	Met	Gly	Pro	Val	Ala
261			210				215					220				
264	Val	Ile	Ile	Leu	Asn	Leu	Phe	Tyr	Phe	Gln	Val	Leu	Trp	Ile	Leu	
265							230			235					240	
268	Arg	Ser	Lys	Leu	Ser	Leu	Asn	Lys	Glu	Val	Ser	Thr	Ile	Gln	Asp	
271							245			250					255	
274	Thr	Arg	Val	Met	Thr	Phe	Lys	Ala	Ile	Ser	Gln	Leu	Phe	Ile	Leu	Gly
275							260			265					270	
278	Cys	Ser	Trp	Gly	Leu	Gly	Phe	Phe	Met	Val	Glu	Glu	Val	Gly	Lys	Thr
279							275			280					285	
282	Ile	Gly	Ser	Ile	Ile	Ala	Tyr	Ser	Phe	Thr	Ile	Ile	Asn	Thr	Leu	Gln
283							290			295			300			
286	Gly	Val	Leu	Leu	Phe	Val	Val	His	Cys	Leu	Leu	Asn	Arg	Gln	Val	Arg
287							310					315				320

100-110, SEQ ID NO: 6

192-511 LENGTH: 269

19. 11.12. TYPE: DNA

1113. ORGANISM: Synthetic

41-1400 - SEQUENZEN: 6

卷之三

THE BOSTONIAN 117

ANSWER: PEG

134 of 135 DEGENES: Synthetic—

THE SEQUENCING: 2

338 Gln His Ser Asp Ala Val His Asp Leu Leu Leu Asp Val Ile Thr Trp
 339 5 10 15
 340 Val Gly Ile Leu Leu Ser Leu Val Cys Leu Leu Ile Cys Ile Phe Thr
 341 20 25 30
 342 Phe Cys Phe Phe Arg Gly Leu Gln Ser Asp Arg Asn Thr Ile His Lys
 343 35 40 45

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,895

DATE: 05/05/2003

TIME: 12:42:49

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

350 Asn Leu Cys Ile Ser Leu Phe Val Ala Glu Leu Leu Phe Leu Ile Gly
 351 50 55 60
 354 Ile Asn Arg Thr Asp Glu Pro Ala Cys Ala Val Phe Ala Ala Leu Leu
 355 65 70 75 80
 358 His Phe Phe Leu Ala Ala Phe Thr Trp Met Phe Leu Glu Gly Val
 359 85 90 95
 361 Gln Leu Tyr Ile Met Leu Val Glu Val Phe Glu Ser Glu His Ser Arg
 363 100 105 110
 366 Arg Lys Tyr Phe Tyr Leu Val Gly Tyr Gly Met Pro Ala Leu Ile Val
 367 115 120 125
 370 Ala Val Ser Ala Ala Val Asp Tyr Arg Ser Tyr Gly Thr Asp Lys Val
 371 130 135 140
 374 Cys Trp Leu Arg Leu Asp Thr Tyr Phe Ile Trp Ser Phe Ile Gly Pro
 375 145 150 155 160
 377 Ala Thr Leu Ile Ile Met Asn Val Ile Phe Leu Gly Ile Ala Leu Tyr
 378 165 170 175
 381 Lys Met Phe His His Thr Ala Ile Leu Lys Pro Glu Ser Gly Cys Leu
 383 180 185 190
 386 Asp Asn Ile Lys Leu Lys Ile Asn Ile Pro Ile Ile Lys Ser Ile Tyr
 387 195 200 205
 390 Ile Tyr Met Tyr Ile Cys Met Cys Val
 391 210 215
 394 <410> SEQ ID NO: 4
 395 <411> LENGTH: 657
 396 <412> TYPE: DNA
 397 <413> ORGANISM: Synthetic ✓
 398 <400> SEQUENCE: 8

400 cggccatgtg atggggccca tgaccccttt tggatgtgtca tcacggtgggt tggaaatttt 60
 401 ctggatccatgtt tttttttttt gatttgcattt gttttttccgg ggggtcccaag 120
 404 ttggatccatgtt acacccatccca caagaaccc tcgtatcgat tttttgttgc agatgtgttc 180
 406 ttccatgttgc tttttttttt gggatccatgtt gttttttttt cgttgccttg 240
 407 ttatattttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 410 ttatatgtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
 411 ttatatgtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420
 412 ttatatgtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 480
 413 ttatatgtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 540
 414 ttatatgtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 600
 415 ttatatgtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 657

416 <410> SEQ ID NO: 4

417 <411> LENGTH: 304

418 <412> TYPE: PRT

419 <413> ORGANISM: Synthetic ✓

420 <400> SEQUENCE: 9

420 Gly Asn Val Ala Val Ala Phe Val Tyr Tyr Lys Ser Ile Gly Phe Leu

421 1 5 10 15

422 Leu Ser Ser Ser Asp Asn Phe Leu Leu Lys Pro Gln Asn Tyr Asp Asn

423 20 25 30

424 Ser Glu Glu Glu Glu Arg Val Ile Ser Ser Val Ile Ser Val Ser Met

425 35 40 45

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003
TIME: 12:42:50

Input Set : D:\3379.1.ST25.txt
Output Set: N:\CRF4\03032003\J038895.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 126,146

Seq#:3; N Pos. 58

Seq#:4; N Pos. 439

Seq#:19; Xaa Pos. 370

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/038,895

DATE: 03/03/2003

TIME: 12:42:50

Input Set : D:\3379.1.ST25.txt

Output Set: N:\CRF4\03032003\J038895.raw

L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:112

M:341 Repeated in SeqNo=1

L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:420

L:1530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:368